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(54) OSCILLATION GYRO

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an oscillation gyro capable of carrying out an accurate drift correction even in a small storage capacity, and capable of detecting angular velocity accurately in the whole temperature range.

SOLUTION: This oscillation gyro 10 contains an angular velocity sensor 12 bimorphically vibrating in an oscillation circuit 28. Two output signals of the sensor 12 are input into a differential amplifying circuit 30, and an output signal is detected by a synchronous detection circuit 32 to be amplified thereafter by a direct current amplifying circuit 34. An output signal of the amplifying circuit 34 and an output signal of a thermosensor 38 are converted into digital signals by A/D converters 36, 40 to be processed by a processor 42. A temperature drift is measured preliminarily by changing a temperature, a change of the temperature drift is approximated by a function of degree (n), and a resulting coefficient parameter is stored in the processor 42. A drift value at the

time of use is calculated based on the coefficient parameter to conduct correction, and accurate angular velocity is detected thereby.

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